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Sheet 1

of 1

Complete If Known

Application Number	10/717,832
Filing Date	11/19/2003
First Named Inventor	Esch
Art Unit	2873
Examiner Name	E. LESTER

Attorney Docket Number PV-1010 (31147-1010)

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.*	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number+Kind Code* (if known)	MM-DD-YYYY		
		US- 4,787,903	11-29-1988	Grandahl	
		US- 4,816,031	03-28-1989	Ploff	
		US- 5,066,301	11-19-1991	Wiley	
		US- 5,288,293	02-22-1994	O'Donnell Jr.	
		US- 5,443,506	08-22-1995	Garabet	
		US- 5,774,273	06-30-1998	Bomhorst	
		US- 6,124,980	09-26-2000	Cerbell	
		US- 6,188,526	02-13-2001	Sasaya et al.	
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.*	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T*
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8-23-04

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